

ABSTRACT

A single-cell operation supporting robot for supporting a single-cell operation work with multi-purposes by carrying out a work which an operator himself/herself carries out difficultly, according to the indication of the operator. The robot is equipped with a microscope 1, multi-micro well 4 for storing cells and a single-cell stimulating device 5 which are respectively provided on the stage 1a of the microscope 1, a sample injection transportation means 7 which transports a glass capillary 6 for injecting a sample into the single-cell relatively to and from the multi-microwell 4 and an automatic stage 2, a cell transportation device 9 which transports a glass capillary 8 for holding the single-cell relatively to and from each well of the multi-microwell 4, the single-cell stimulating device 5 and the glass capillary 6, a microscopic spectral measurement device 10 which is combined with the microscope 1, computers 11 and 12 which automatically control an actuation of at least one among the microscope 1, the sample injection transportation device 7, the cell transportation device 9, the automatic stage 2, the single-cell stimulating device 5 and the microscopic spectral measurement device 10, and a manual operation device 17 which inputs signals to the computers 11 and 12 based on an operation by an operator and actuates the microscope and the like.